



FORM PTO-1449

U.S. DEPARTMENT OF COMMERCE  
PATENT & TRADEMARK OFFICEFORMAL DISCLOSURE STATEMENT  
BY APPLICANT

ATTY DOCKET NO. 3912E (DIV)

SERIAL NO. 09/766,723

APPLICANT: Hoke, et al.

FILING DATE: January 22, 2001

GROUP: 1744

## REFERENCE DESIGNATION

## U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Name	Class	Filing Date if Appropriate
KMT	3,738,088*	1/12/73	Colosimo, Louis E.	55/104	
	4,134,860*	1/16/79	Hindin, et al.	252/466	
	4,343,776*	8/10/82	Carr, et al.	423/210	
	4,405,507*	9/20/83	Carr, et al.	252/466	
	4,714,694*	12/22/87	Wan, et al.	502/304	
	4,738,947*	4/19/88	Wan, et al.	502/304	
	5,010,051*	4/23/91	Rudy, Wayne M.	502/304	
	5,057,483*	10/15/91	Wan, Chung-Zong	502/304	
	5,139,992*	8/18/92	Tauster, et al.	502/304	
	5,145,822*	9/8/92	Falke, et al.	502/150	
	5,147,429*	9/15/92	Bartholomew, et al.	55/356	
	5,283,041*	2/1/94	Nguyen, et al.	423/240	
	5,308,591*	5/3/94	Whittenberger, William A.	422/174	
	5,317,869*	6/7/94	Takeuchi, Yukihisa	60/300	
	5,340,562*	8/23/94	O'Young, et al.	423/399	
KMT	5,422,331*	6/6/95	Galligan, et al.	502/333	

\*submitted with previously filed related IDS

## FOREIGN PATENT DOCUMENTS

Examiner Initial	Document number	Publication Date	Country or Patent Office	Class	Translation	
					Yes	No
KMT	DE 40 07 965 C2*	10/03/94	Germany			
	DE 43 18 738 C1*	14/07/94	Germany			
	WO 94/27709*	08/12/94	PCT			
	WO 96/22150	25/07/96	PCT			
KMT	WO 97/11769	03/04/97	PCT			

\*submitted with previously filed related IDS



FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT & TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT	ATTY DOCKET NO. 3912E (DIV)	SERIAL NO. 09/766,723
	APPLICANT: Hoke, et al.	
	FILING DATE: January 22, 2001	GROUP: 1744

OTHER ART (Including Author, Title, Date, Pertinent Pages, etc.)

<i>Kuf</i>	O'Young, Hydrothermal Synthesis of Manganese Oxides with Tunnel Structures, Modern Analytical Techniques for Analysis of Petroleum, presented at the Symposium on Advances in Zeolites and Pillared Clay Structures before the Division of Petroleum Chemistry, Inc. American Chemical Society New York City Meeting, August 25-30, 1991 beginning at page 348*
<i>Kuf</i>	McKenzie, the Synthesis of Birnessite, Cryptomelane, and Some Other Oxides and Hydroxides of Manganese, Mineralogical Magazine, December 1971, Vol. 38, pp. 493-502*

\*submitted with previously filed related IDS

Examiner <i>Kusum Thacker</i>	Date Considered <i>3/3/2004</i>
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

INFORMATION DISCLOSURE STATEMENT PTO-1449 (Modified)



FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT & TRADEMARK OFFICE  INFORMATION DISCLOSURE STATEMENT BY APPLICANT	ATTY DOCKET NO. 3912E(DIV)	SERIAL NO. 09/766,723
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# U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Name	Class	Filing Date if Appropriate
	3,738,088*	7/12/73	Golosimo, Louis E.	55/404	
Kut	3,859,788*	1/14/75	King, et al.	60/280	
	4,195,606*	4/1/80	Wallis, Jr., et al.	123/119	
	4,670,474*	6/2/87	Hinnenkamp, et al.	518/713	
	5,113,836*	5/19/92	Sweeten, Theodore P.	123/573	
Kut	5,130,109*	7/14/92	Wan, Chung-Zong	423/213	
	5,145,822*	9/8/92	Falke, et al.	502/150	
	5,147,429*	9/15/92	Bartholomew, et al.	55/356	
Kut	5,250,487*	10/5/93	Wirtz, et al.	502/243	
Kut	5,252,299*	10/12/93	Retallick, William B.	422/174	
	5,283,041*	1/1/94	Nguyen, et al.	423/240	
Kut	5,433,772*	7/18/95	Sikora, David	96/87	
	Atty. Docket # 7291.02 *		Brown, Leo K.		

\*submitted with previously filed related IDS

# FOREIGN PATENT DOCUMENTS

Examiner Initial	Document number	Publication Date	Country or Patent Office	Class	Translation	
					Yes	No
Kut	DE 2155738*	1/17/73	Germany	B60H 3/06		X
	DE 25 49 621 A1 *	5/12/77	Germany	H01M 4/90		X
	DE 30 19 828 *	11/27/80	Germany	C09D 7/12	X	
	DE 33 34 992 A1 *	4/25/85	Germany	B60H 3/00		X
	DE 37 13 035 A1 *	10/27/88	Germany	B65D 90/28		X
Kut	DE 40 07 964 A1*	9/19/91	Germany	B01J 23/72		X
	DE 40 07 965 A1*	9/19/91	Germany	B01J 23/84		X
Kut	DE 40 07 965 C2 *	3/10/94	Germany	B01J 23/72	X	
	DE 43 18 738 C1*	7/14/94	Germany	B01D 53/36		X
	DE 94 15 457.0*	1/5/95	Germany	B01D 53/86		X
Kut	WO 95/22395 *	8/24/95	PCT	B01D 57/75	X	

\*submitted with previously filed related IDS



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## U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Name	Class	Filing Date if Appropriate
<i>RM</i>	4,399,185 *	08/16/83	Petrow	428-253	
<i>RM</i>	5,187,137 *	02/16/93	Terui et al.	502-241	
<i>RM</i>	5,620,672 *	04/15/97	Galligan et al.	423-219	

\*submitted with previously filed related IDS

## FOREIGN PATENT DOCUMENTS

Examiner Initial	Document number	Publication Date	Country or Patent Office	Class	Translation	
					Yes	No

\*submitted with previously filed related IDS

## OTHER ART (Including Author, Title, Date, Pertinent Pages, etc.)


Examiner <i>Kenneth Therk</i>	Date Considered <i>3/3/04</i>
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## U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Name	Class	Filing Date if Appropriate	
Kut	WO 96/09109 *	3/28/96	PCT	B01D 53/88	X	
	WO 96/22146 *	7/25/96	PCT	B01D 53/68	X	
	WO 96/22148 *	7/25/96	PCT	B01D 53/88	X	
	EP 097 287 *	1/4/84	EPO	F28D 1/04		X
	EP 186 477 *	7/2/89	EPO	F24F 3/12	X	
	EP 351 036 *	1/17/90	EPO	B01J 35/02	X	
	EP 373 648 *	6/20/90	EPO	B01D 53/36	X	
	EP 470 330 A1 *	2/12/92	EPO	F02M 35/024		X
	EP 537 815 *	4/21/93	EPO	C10G 47/14	X	
	JP 4110045 *	4/10/92	Japan	B01D 53/36	X	
	JP 4297341*	10/21/92	Japan	B60P 3/00	X	
	JP 5023590 *	2/2/93	Japan	B01D 53/36	X	
	JP 5038443 *	2/19/93	Japan	B01J 23/89	X	
	JP 52148468 *	12/9/77	Japan	B01D 53/34	X	
	JP 55106813*	8/17/80	Japan	B60H 1/24	X	
	JP 56059671*	5/23/81	Japan	B01J 20/06	X	
	JP 57122924*	7/31/82	Japan	B01D 53/36	X	
	JP 61035853*	2/20/86	Japan	B01J 23/89	X	
	SU 1 703 173*	1/7/92	Soviet Union	B01J 37/30	X	
	GB 2 110 174 A*	6/15/83	United Kingdom	B60K 13/02		
	GB 2 218 354 A*	11/15/89	United Kingdom	B01D 50/00		

\*submitted with previously filed related IDS

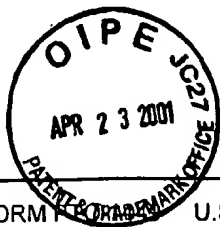
## OTHER ART (Including Author, Title, Date, Pertinent Pages, etc.)

Kim	Mark, et al., Kirk-Othmer Encyclopedia of Chemical Technology, Ed. 3, Vol. 5, Castor Oil to Chlorosulfuric Acid, 1989, Wiley & Sons, NY, pgs. 22-23, 40, 49-51 *
ch	Gerhartz, et al., Ullmann's Encyclopedia of Industrial Chemistry, Ed. 5, Vol. A5, Cancer Chemotherapy to Ceramic Colorants, 1986, VCH Verlag, De. Weinheim, pgs. 336, 347-353*

\*submitted with previously filed related IDS

Examiner <i>Kenneth J. Hoke</i>	Date Considered <i>3/13/01</i>
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



FORM 1 U.S. DEPARTMENT OF COMMERCE PATENT & TRADEMARK OFFICE  INFORMATION DISCLOSURE STATEMENT BY APPLICANT	ATTY DOCKET NO. 3912E(DIV)	SERIAL NO 09/766,723
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## U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Name	Class	Filing Date if Appropriate
	<del>3,738,088*</del>	<del>6/12/73</del>	<del>Colosimo, Louis E.</del>	<del>55/104</del>	
	<del>5,145,822*</del>	<del>9/8/92</del>	<del>Falke, et al.</del>	<del>502/150</del>	

\*submitted with previously filed related IDS

## FOREIGN PATENT DOCUMENTS

Examiner Initial	Document number	Publication Date	Country or Patent Office	Class	Translation	
					Yes	No
	<del>DE 40 07 964 A1 *</del>	<del>9/19/91</del>	<del>Germany</del>	<del>B01J 23/72</del>		X
	<del>DE 40 07 965 A1 *</del>	<del>9/19/91</del>	<del>Germany</del>	<del>B01J 23/84</del>		X
	<del>DE 94 15 457.0 *</del>	<del>1/5/95</del>	<del>Germany</del>	<del>B01D 53/86</del>		X
	<del>WO 96/09109 *</del>	<del>3/28/96</del>	<del>PCT</del>	<del>B01D 53/88</del>		X
	<del>WO 93/05821 *</del>	<del>4/1/93</del>	<del>PCT</del>	<del>A61L 9/20</del>	X	
	<del>WO 90/11433 *</del>	<del>10/4/90</del>	<del>PCT</del>	<del>F01N3/10</del>	X	
	<del>JP55106813 *</del>	<del>8/17/80</del>	<del>Japan</del>	<del>B60H 1/24</del>	X	
	<del>DE 43 18 738 C1 *</del>	<del>7/14/94</del>	<del>Germany</del>	<del>B01D 53/36</del>		X

related

\*copy submitted with previously sent Information Disclosure Statement

## OTHER ART (Including Author, Title, Date, Pertinent Pages, etc.)


Examiner <i>Liam Thur</i>	Date Considered <i>3/3/04</i>
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INFORMATION DISCLOSURE STATEMENT PTO-1449 (Modified)



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	APPLICANT: Hoke, et al.	
	FILING DATE: January 22, 2001	GROUP: 1744

## REFERENCE DESIGNATION

## U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Name	Class	Filing Date if Appropriate
EW	4,207,291*	6/10/80	Byrd, et al.	422/122	
	4,379,129*	4/5/83	Abe, Akira	423/210	
	5,080,882*	1/14/92	Yoshimoto, et al.	423/579	
	5,160,586*	11/3/92	Yoshimoto, et al.	204/59	

\*submitted with previously filed related IDS

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Examiner Initial	Document number	Publication Date	Country or Patent Office	Class	Translation	
					Yes	No
EW	DE 40 17 892 A1 *	5/12/91	Germany	B01J 23/89		X
	GB 2 056 424 A *	3/18/81	United Kingdom	B01D 53/36		
	JP405007776 A *	1/19/93	Japan	B01J 23/64		X

\*submitted with previously filed related IDS

## OTHER ART (Including Author, Title, Date, Pertinent Pages, etc.)


Examiner <i>Kenneth Thun</i>	Date Considered <i>3/3/04</i>
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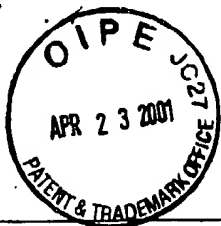
FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT & TRADEMARK OFFICE  INFORMATION DISCLOSURE STATEMENT BY APPLICANT	ATTY DOCKET NO. 3912E (DIV)	SERIAL NO. 09/766,782
	APPLICANT: Hoke, et al.	
	FILING DATE: January 22, 2001	GROUP:

REFERENCE DESIGNATION

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Examiner Initial	Document Number	Date	Name	Class	Filing Date if Appropriate
Kuj	3,837,149 *	09/24/74	West et al.	55/269	
	3,864,118 *	02/04/75	Schumacher et al.	75/3	
	3,883,637 *	05/13/75	Benedict	423/230	
	3,915,837 *	10/28/75	Feige, Jr.	204/286	
	3,959,021 *	05/25/76	Nishino et al.	136/138	
	3,993,597 *	11/23/76	Stiles	252/454	
	4,006,217 *	02/01/77	Faber et al.	423/605	
	4,007,875 *	02/15/77	Stolz et al.	237/12.3 A	
	4,089,928 *	05/16/78	Foroglou	423/49	
	4,101,296 *	07/18/78	Lowther	55/33	
	4,141,963 *	02/27/79	Miller	423/592	
	4,171,211 *	10/16/79	Carter	55/493	
	4,173,549 *	11/06/79	Kent et al.	252/463	
	4,184,983 *	01/22/80	Putz et al.	252/466 PT	
	4,197,366 *	04/08/80	Tamura et al.	429/197	
	4,200,609 *	04/29/80	Byrd	422/122	
	4,234,326 *	11/18/80	Bailey et al.	55/278	
	4,246,253 *	01/20/81	Hunter	423/605	
	4,261,863 *	04/14/81	Kent et al.	252/463	

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Examiner Initial	Document Number	Date	Name	Class	Filing Date if Appropriate
KAT	4,277,360 *	07/07/81	Mellors et al.	252/182.1	
	4,284,618 *	08/18/81	Van der Heyden et al.	423/605	
	4,285,913 *	08/25/81	Soni et al.	423/50	
	4,302,490 *	11/24/81	Byrd	427/301	
	4,310,494 *	01/12/82	Welsh	423/49	
	4,352,321 *	10/05/82	Fukui et al.	98/2.11	
	4,363,787 *	12/14/82	Yoon	422/201	
	4,379,817 *	04/12/83	Kozawa	429/224	
	4,402,931 *	09/06/83	Tanabe et al.	423/605	
	4,405,699 *	09/20/83	Kruger	429/224	
	4,425,145 *	01/10/84	Reese	55/385 B	
	4,476,104 *	10/09/84	Mellors	423/605	
	4,477,541 *	10/16/84	Fraioli	429/33	
	4,483,828 *	11/20/84	Laughlin et al.	423/49	
	4,485,073 *	11/27/84	Robertson et al.	423/49	
	4,489,043 *	12/18/84	Bowerman et al.	423/49	
	4,551,254 *	11/05/85	Imada et al.	210/688	
	4,579,723 *	04/01/86	Weltmer et al.	423/219	
	4,581,219 *	04/08/86	Imada et al.	423/605	
	4,585,718 *	04/29/86	Uedaira et al.	429/224	
KAT	4,590,059 *	05/20/86	Mellors	423/605	

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REFERENCE DESIGNATION

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Examiner Initial	Document Number	Date	Name	Class	Filing Date if Appropriate
KW	4,595,643 *	06/17/86	Koshiba et al.	429/27	
	4,604,336 *	08/05/86	Nardi	429/224	
	4,619,821 *	10/28/86	Ely	423/579	
	4,657,887 *	04/14/87	Hardman et al.	502/303	
	4,662,065 *	05/05/87	Marincic et al.	29/623.1	
	4,684,381 *	08/04/87	Wasylyniuk	55/316	
	4,733,605 *	03/29/88	Hölter et al.	98/2.11	
	4,734,113 *	03/29/88	Takagi et al.	55/504	
	4,742,038 *	05/03/88	Matsumoto	502/303	
	4,818,354 *	04/04/89	Preisler et al.	204/96	
	4,824,363 *	04/25/89	Abthoff et al.	432/222	
	4,838,910 *	06/13/89	Stollenwerk et al.	55/385.2	
	4,871,709 *	10/03/89	Tatsushima et al.	502/324	
	4,921,689 *	05/01/90	Walker et al.	423/605	
	4,961,762 *	10/09/90	Howeth	55/302	
	4,975,346 *	12/04/90	Lecerf et al.	429/197	
	5,004,487 *	04/02/91	Kowalczyk	55/269	
	5,082,570 *	01/21/92	Higgins et al.	210/683	
	5,085,266 *	02/04/92	Arold et al.	165/1	
	5,092,396 *	03/03/92	Murano et al.	165/119	
KW	5,142,864 *	09/01/92	Dunne	60/274	

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Examiner Initial	Document Number	Date	Name	Class	Filing Date if Appropriate
Kuy	5,145,657 *	09/08/92	Kobayashi et al.	423/219	
	5,162,274 *	11/10/92	Deitz	502/51	
	5,176,833 *	01/05/93	Vaughn et al.	210/638	
	5,180,502 *	01/19/93	Nishiki et al.	210/748	
	5,194,233 *	03/16/93	Kitahara et al.	423/210	
	5,212,140 *	05/18/93	Yoshimoto et al.	502/300	
	5,214,014 *	05/25/93	Yoshimoto et al.	502/84	
	5,221,649 *	06/22/93	Yoshimoto et al.	502/84	
	5,221,652 *	06/22/93	Tierney et al.	502/170	
	5,227,144 *	07/13/93	Perez de la Garza	423/210	
	5,232,882 *	08/03/93	Yoshimoto et al.	502/5	
	5,232,886 *	08/03/93	Yoshimoto et al.	502/84	
	5,262,129 *	11/16/93	Terada et al.	422/122	
	5,277,890 *	01/11/94	Wang et al.	423/605	
	5,283,139 *	02/01/94	Newman et al.	429/224	
	5,294,499 *	03/15/94	Furukawa et al.	429/164	
	5,296,435 *	03/22/94	Kitaguchi et al.	502/174	
	5,348,726 *	09/20/94	Wang et al.	423/605	
	5,356,457 *	10/18/94	Pincheira Alvarez et al.	75/710	
Am	5,382,417 *	01/17/95	Haase	423/219	

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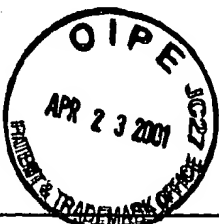
Examiner Initial	Document Number	Date	Name	Class	Filing Date if Appropriate
KNT	5,391,365 *	02/21/95	Wang et al.	423/605	
	5,395,534 *	03/07/95	Smith	210/688	
	5,401,477 *	03/28/95	Cawfield et al.	423/50	
	5,405,594 *	04/11/95	Andersen et al.	423/605	
	5,411,643 *	05/02/95	Cawfield et al.	204/115	
	5,419,882 *	05/30/95	Jibiki	423/111	
KNT	5,447,693 *	09/05/95	Ohta et al.	422/122	

\*submitted with previously filed related IDS

#### FOREIGN PATENT DOCUMENTS

Examiner Initial	Document number	Publication Date	Country or Patent Office	Class	Translation	
					Yes	No
KNT	25 49 621 B2 *	12.5.77	E. Germany			X
	44 20 224 A1 *	26.1.95	E. Germany	B01D 53/86	X	
	44 23 329 A1 *	26.1.95	E. Germany	B01D 53/86	X	
	0 561 484 A1 *	22.9.93	Europe	B01D 53/36	X	
	822 053 *	22.11.51	Germany	63c/73	X	
	1,067,691 *	22.10.59	Germany	61b 1 / 02	X	
	1,095,128 *	15.12.60	Germany	61b 1 / 02	X	
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KNT	3-229645 *	3.91.10	Japan			X

\*submitted with previously filed related IDS



FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT & TRADEMARK OFFICE  INFORMATION DISCLOSURE STATEMENT BY APPLICANT	ATTY DOCKET NO. 3912E (DIV)	SERIAL NO. 09/766,723
	APPLICANT: Hoke, et al.	
	FILING DATE: January 22, 2001	GROUP: 1244

## REFERENCE DESIGNATION

## U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Name	Class	Filing Date if Appropriate

## FOREIGN PATENT DOCUMENTS

Examiner Initial	Document number	Publication Date	Country or Patent Office	Class	Translation	
					Yes	No

## OTHER ART (Including Author, Title, Date, Pertinent Pages, etc.)

	Derwent Abstracts (see Attached) *
km	Manganese Compounds, Vol. 15, pages 1003-1050. *

\*submitted with previously filed related IDS

Examiner <i>Kenneth Thacker</i>	Date Considered 3/2/04
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

INFORMATION DISCLOSURE STATEMENT PTO-1449 (Modified)



FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT & TRADEMARK OFFICE  INFORMATION DISCLOSURE STATEMENT BY APPLICANT	ATTY DOCKET NO. 3912E (DIV)	SERIAL NO. 09/766,793
	APPLICANT: Hoke, et al.	
	FILING DATE: January 22, 2001	GROUP: 1747

# REFERENCE DESIGNATION

## U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Name	Class	Filing Date if Appropriate
<i>[Signature]</i>	3,837,149 *	09/24/74	West et al.	55/269	
<i>[Signature]</i>	3,859,788 *	01/14/75	King et al.	60/280	
<i>[Signature]</i>	4,206,083 *	06/03/80	Chang	252/455 R	
<i>[Signature]</i>	4,348,360 *	09/07/82	Chang et al.	422/122	
<i>[Signature]</i>	4,399,185 *	08/16/83	Petrow	428/253	
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\*submitted with previously filed related IDS

## FOREIGN PATENT DOCUMENTS

Examiner Initial	Document number	Publication Date	Country or Patent Office	Class	Translation	
					Yes	No
<i>[Signature]</i>	DE 215 5738 *	17.01.73	Germany	B60H 3/06		X
<i>[Signature]</i>	DE 37 13 035 A1 *	27.10.88	Germany	B65D 90/28		X
<i>[Signature]</i>	DE 40 07 965 A1 *	19.09.91	Germany	B01J 23/84	X	
<i>[Signature]</i>	DE 40 17 892 A1 *	05.12.91	Germany	B01J 23/89		X
<i>[Signature]</i>	DE 42 09 196 C1 *	29.07.93	Germany	B01D 53/36		X
<i>[Signature]</i>	DE 42 09 198 C1 *	01.07.93	Germany	B01D 53/36		X
<i>[Signature]</i>	EP 0 186 477 B1 *	02.07.86	Europe	F24F 3/12	X	
<i>[Signature]</i>	EP 0 431 648 A1 *	12.06.91	Europe	A61L 9/015	X	
<i>[Signature]</i>	EP 470 330 A1 *	12.02.92	Europe (abstract attached)	F02M 35/024		
<i>[Signature]</i>	EP 0 653 956 B1 *	24.05.95	Europe	B01D 53/66		X
<i>[Signature]</i>	EP 0 666 776 B1 *	16.08.95	Europe	B01J 35/04	X	
<i>[Signature]</i>	H4-297341 *	21.10.92	Japan (transl. attached)	B60P 3/00	X	

\*submitted with previously filed related IDS



FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT & TRADEMARK OFFICE  INFORMATION DISCLOSURE STATEMENT BY APPLICANT	ATTY DOCKET NO. 3912E (DIV)	SERIAL NO. 09/766,793
	APPLICANT: Hoke, et al.	
	FILING DATE: January 22, 2001	GROUP: 124

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Examiner Initial	Document number	Publication Date	Country or Patent Office	Class	Translation	
					Yes	No
	JP 7-4011141 *	74.03.15	Japan (Abstract attached)	B01D 053/34	X	
	GB 2 009 392 *	13.01.79	United Kingdom	F24F 7/06	X	
	GB 2 056 424 B*	06.07.83	United Kingdom	B01D 63/36	X	
	WO 97/41948 *	13.11.97	PCT	B01D 53/86	X	
	WO 98/06479 *	19.02.98	PCT	B01D 53/86	X	
	WO 98/06480 *	19.02.98	PCT	B01D 53/86	X	

\*submitted with previously filed related IDS

OTHER ART (Including Author, Title, Date, Pertinent Pages, etc.)

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\*submitted with previously filed related IDS

Examiner	Date Considered 3/3/01
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

INFORMATION DISCLOSURE STATEMENT PTO-1449 (Modified)



FORM PTO-1449 U.S. DEPT. OF COMMERCE PATENT & TRADEMARK OFF.  INFORMATION DISCLOSURE STATEMENT BY APPLICANT	ATTY DOCKET NO.3912E(DIV)	SERIAL NO.09/766,723
	APPLICANT: J. B. Hoke, et al	
	FILING DATE: Jan.22,2001	GROUP:

# REFERENCE DESIGNATION

# U.S. PATENT DOCUMENTS

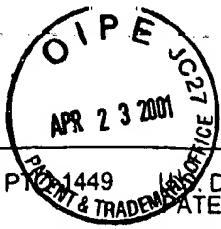
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\*submitted with previously filed related IDS

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Examiner Initial	Document number	Publication Date	Country or Patent Office	Class	Translation	
					Yes	No
	J7 4011141*	03/74	Japan		✓	
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\*submitted with previously filed related IDS



FORM PTO 1449 DEPARTMENT OF COMMERCE PATENT & TRADEMARK OFFICE  INFORMATION DISCLOSURE STATEMENT BY APPLICANT	ATTY DOCKET NO. 3912E (DIV)	SERIAL NO. 09/766,723
	APPLICANT: Hoke, et al.	
	FILING DATE: January 22, 2001	GROUP: 1741

**REFERENCE DESIGNATION**

**U.S. PATENT DOCUMENTS**

Examiner Initial	Document Number	Date	Name	Class	Filing Date if Appropriate

**FOREIGN PATENT DOCUMENTS**

Examiner Initial	Document number	Publication Date	Country or Patent Office	Class	Translation	
					Yes	No
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	S55-106813 *	8/16/90	Japan		✓	

\*submitted with previously filed related IDS



FORM PTO-1449 DEPARTMENT OF COMMERCE PATENT & TRADEMARK OFFICE  INFORMATION DISCLOSURE STATEMENT BY APPLICANT	ATTY DOCKET NO. 3912E (DIV)	SERIAL NO. 09/766,723
	APPLICANT: Hoke, et al.	
	FILING DATE: January 22, 2001	GROUP: 1744

OTHER ART (Including Author, Title, Date, Pertinent Pages, etc.)

<input checked="" type="checkbox"/>	SAE 931088 Calculation and Design of Cooling Systems by Eichseder & Raab of Steyr Damler Puch AG, 1993 *
<input type="checkbox"/>	SAE 931089 Charge Air Cooler for Passenger Cars by thierry Collette of Valeo Thermique Moteur, 1993 *
<input type="checkbox"/>	SAE 931092 State of the Art & Future Developments of Aluminum Radiators for Cars & Trucks by Josef Kern & Jochen Eitel of Behr GmbH & Co., 1993 *
<input type="checkbox"/>	SAE 931112 Air Mix versus Coolant Flow to Control Discharge Air Temperature in Vehicle Heating and Air Conditioning Systems by Gary Rolling and Robert Cummings of Behr of America, Inc. and Gebhard Schweizer of Behr GmbH & Co., 1993 *
<input type="checkbox"/>	SAE 931115 Engine Cooling Module Development Using Air Flow Management Technique by Refki El-Bourini & Samuel Chen of Calsonic Technical Center, 1993 *
<input type="checkbox"/>	SAE 931120 A New Zeolite Energy Storage Concept for Cooling & Heating Sleeping Cabins in Trucks by Manfred Nonnenman & Noureddine Khellifa of Behr GmbH & Co., 1993 *
<input type="checkbox"/>	SAE 931121 Automotive Evaporator and Condenser Modeling by Francisco Castro, Francisco Tinaut & A.A. Rahman Ali of Universidad de Valladolid, 1993 *
<input type="checkbox"/>	SAE 931125 Durability Concerns of Aluminum Air to Air Charge Air Coolers by Paul Richard Smith of Valeo Engine Cooling Inc., 1993 *
<input type="checkbox"/>	Taylor, The Internal Combustion Engine in Theory and Practice, Vol. I: Thermo Dynamics, Fluid Flow, Performance, Second Edition, Rev., The MIT Press, 1985 at pages 304-06 for radiator and fin design; and page 392 for after coolers *
<input type="checkbox"/>	Bosch Automotive Handbook, Second Edition, Pages 301-03, 320 and 349-51 published by Robert Bosch GmbH, 1986 *
<input type="checkbox"/>	Outside submission from Litman Law Offices, Ltd. in the Application of Leo K. Brown for an Environmental Air Filtration System for Vehicles *
<input type="checkbox"/>	Outside submission from Attorney Conrad O. Gardner in the Application of A System for Ambient Air Pollution Processing by Motor Vehicles *
<input type="checkbox"/>	O'Young, Hydrothermal Synthesis of Manganese Oxides with Tunnel Structures, Modern Analytical Techniques for Analysis of Petroleum, presented at Symposium on Advances in Zeolites and Pillared Clay Structures before the Division of Petroleum Chemistry, Inc., American Chemical Society, NYC Meeting, August 25-30, 1991 beginning at page 348 *
<input type="checkbox"/>	McKenzie, The Synthesis of Birnessite, Cryptomelane, and Some Other Oxides and Hydroxides of Manganese, Mineralogical Magazine, December 1971, Vol. 38, pp 493-502. *
<input checked="" type="checkbox"/>	Newspaper Article with Informal Translation - Mobile Air Purification *
<input checked="" type="checkbox"/>	Newspaper Article with Informal Translation - Super-Kat in Cars ensures clean air forever *

\*submitted with previously filed related IDS

Examiner <u>Ramon Thomas</u>	Date Considered <u>03/3/04</u>
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT & TRADEMARK OFFICE  INFORMATION DISCLOSURE STATEMENT BY APPLICANT	ATTY DOCKET NO. 3912E (DIV)	SERIAL NO. 09/766,723
	APPLICANT: Hoke, et al.	
	FILING DATE: January 22, 2001	GROUP:

## REFERENCE DESIGNATION

## U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Name	Class	Filing Date if Appropriate
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\*submitted with previously filed related IDS

## FOREIGN PATENT DOCUMENTS

Examiner Initial	Document number	Publication Date	Country or Patent Office	Class	Translation	
					Yes	No

## OTHER ART (Including Author, Title, Date, Pertinent Pages, etc.)


Examiner <i>L. Susan Thon</i>	Date Considered <i>3/3/02</i>
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

INFORMATION DISCLOSURE STATEMENT PTO-1449 (Modified)



FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT & TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT	ATTY DOCKET NO. 3912E (DIV)	SERIAL NO. 09/766,793
	APPLICANT: Hoke, et al.	
	FILING DATE: January 22, 2001	GROUP: 1244

REFERENCE DESIGNATION		U.S. PATENT DOCUMENTS			
Examiner Initial	Document Number	Date	Name	Class	Filing Date if Appropriate
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	1,937,488 *	11/28/33	Jenness	23/234	
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